

**INFORMATION DISCLOSURE
CITATION**

Atty. Docket No.: 10228US01

Serial No.: 10/730,843

Applicant(s): Ramon F. Hegel

Filing Date: 12/09/2003

Group: 2651

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	SubClass	Filing Date If Appropriate
HR	4,882,197	11/1989	Matsudaira et al.			
HR	5,049,410	09/1991	Johary et al.			
HR	5,112,662	05/1992	Ng			
HR	5,143,787	09/1992	Frew et al.			
HR	5,527,479	06/1996	Nagataki et al.			
HR	6,001,479	12/1999	Yokosawa et al.			

FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Sub-Class	Translation
					Yes No

OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)

HR	"Improved Surface Adhesion and Coverage of Perfluoropolyether Lubricants Following Far-UV Irradiation," Saperstein et al., American Chemical Society, Langmuir 1990, Vol. 6, 1522-1524
HR	"Frictional Properties of Novel Lubricants for Magnetic Thin Film Media," Kondo et al., IEEE Transactions on Magnetics, Vol. 26, No. 5, September 1990, pp. 2691-2693
HR	"Lubricant Performance in Magnetic Thin Film Disks with Carbon Overcoat—Part II: Durability," Streater et al.; Journal of Tribology, Transactions of the ASME, January 1991, Vol. 113, pp. 32-37
HR	"Effect of Relative Humidity on Friction Behavior of the Head/Disk Interface," Tian et al., IEEE Transactions on Magnetics, Vol. 28, No. 5, September 1992, pp. 2530-2532
HR	"Effect of Relative Humidity on Lubricant Performance," Merchant et al., IEEE Transactions on Magnetics, Vol. 29, No. 6, November 1993, pp. 3930-3932
HR	"Tribology of thin-film media in both flying and sliding modes," Azarian et al.; Wear, 168 (1993), pp. 59-76
HR	"The Mechanism of Ultraviolet Bonding of Perfluoropolyether Lubricants," Vurens et al., IEEE Transactions of Magnetics, Vol. 29, No. 1, January 1993, pp. 282-285

EXAMINER

/Holly Rickman/

Date Considered

09/26/2006

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)			
HR		"Enhanced tribological performance of rigid disk by using chemically bonded lubricant," Lee et al., J. Vac. Sci. Technol. A., Vol. 11, No. 3, May/Jun 1993, pp. 711-714	
HR		"Adsorption of Perfluoro-Polyethers on Carbon Surfaces," Yanagisawa, Presented at ASME/Style Tribology Conference in Lahaina, Hawaii, October 16-20, 1994, pp. 25-32	
HR		"Lubricant Bonding Via Hydrogen Bond Network," Sano et al., IEEE Transactions on Magnetics, Vol. 30, No. 6, November 1994, pp. 4140-4142	
HR		"Spreading characteristics of thin liquid films of perfluoropolyalkylethers on solid surfaces. Effects of chain-end functionality and humidity," Min et al., Tribology Letters 1 (1995), pp. 225-232	
HR		"Dip-Coating of Ultra-Thin Liquid Lubricant and Its Control for Thin-Film Magnetic Hard Disks," Gao et al., IEEE Transactions on Magnetics, Vol. 31, No. 6, November 1995, pp. 2982-2984	
HR		"Lubrication of modified perfluoropolyether on magnetic media," Kondo et al., Journal of Magnetism and Magnetic Materials 155 (1996), pp. 332-334	
HR		"Fluoroether Bonding to Carbon Overcoats," Cornaglia et al., TRIB-Vol. 6, Tribology of Contact/Near-Contact Recording for Ultra High Density Magnetic Storage ASME 1996, pp. 39-45	
HR		"Effect of double bonds on friction in the boundary lubrication of magnetic thin film media," Kondo, Wear 202 (1997), pp. 149-153	
HR		"Effect of bonded lubricant films on the tribological performance of magnetic thin-film rigid disks," Zhao et al., Wear 202 (1996), pp. 50-59	
HR		"The Interaction of Perfluoro-Polyether Lubricant with Hydrogenated Carbon," Wang et al., IEEE Transactions on Magnetics, Vol. 32, No. 5, September 1996, pp. 3777-3779	
HR		"Behavior of Perfluoropolyether in Particulate Magnetic Recording Media," Nishida et al., IEEE Transactions on Magnetics, Vol. 32, No. 5, September 1996, pp. 3738-3740	
HR		"Molecular Orientation of PFPE Lubricant Films and Its Quantification," Gao et al., IEEE Transactions on Magnetics, Vol. 33, No. 5, September 1997, pp. 3118-3120	
HR		"Acoustic Emission Study of Lubricant Effect on Proximity Contact Recording," Liu et al., IEEE Transactions on Magnetics, Vol. 33, No. 5, September 1997, pp. 3160-3162	
HR		"Surface and lubricant/overcoat interface properties of the rigid disks after corrosion," Huang et al., IEEE Transactions on Magnetics, Vol. 33, No. 5, September 1997, pp. 3154-3156	
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